

## MULTIMEDIA ENTERTAINMENT UNIT

### Abstract

There is provided an entertainment unit for a vehicle. The unit includes an assembly housing adapted to mount  
5 against an interior surface of the vehicle. A bus is adapted to couple at least one of video and audio signals from each of a plurality of input devices. At least one display device, houseable in the assembly and operatively coupled to the bus, is adapted to reproduce the video  
10 signals. At least one wireless transmitter operatively coupled to the bus, is adapted to wirelessly and simultaneously transmit a plurality of audio programs to a plurality of wireless headphone sets. The at least one wireless transmitter includes at least one multiplexor  
15 adapted to select a specific input device whose audio output is to be wirelessly transmitted to a given one of the plurality of wireless headphone sets. The at least one wireless transmitter is adapted to wirelessly transmit the plurality of audio programs to each of the plurality of  
20 wireless headphone sets as a left audio channel and a right audio channel, each of the channels having a different frequency for each of the plurality of wireless headphone sets. Alternatively, the at least one wireless transmitter

may be adapted to transmit the plurality of audio programs  
based upon Code-Division Multiple Access (CDMA) technology.